United States Department of Agriculture | Forest Service | Northeastern Area State & Private Forestry | 180 Canfield Street Morgantown, WV 26505

Reply To: 3460/3410

Date: October 22, 1993

Mr. Kevin Thorpe
USDA Agricultural Research Service
Beltsville Agricultural Research Center
Building 402, BARC-East
Beltsville, MD 20705-2350

Dear Kevin:

On September 7, 9 and 10, 1993, USDA Forest Service personnel conducted a gypsy moth egg mass survey at the Beltsville Agricultural Research Center (BARC). The purpose of this survey was to determine gypsy moth population densities and to assess the potential for defoliation and the need for treatment in 1994.

The results of the survey are presented in Table 1. The survey plot locations are shown in Figure 1. In brief, site-wide egg mass densities ranged from 0-9,880 and average 873 egg masses per acre. The largest concentration of gypsy moth egg masses is located on a 160 acre area north of Beaverdam Road and east of Soil Conservation Service Road (Figure 2). Egg mass densities in this area ranged from 0-9,880 and averaged 3,871 egg masses. As you know, this population level is sufficient to cause noticeable defoliation (31-100 percent). In order to prevent this defoliation and reduce gypsy moth populations, it is recommended to treat this area with one application of Bacillus thuringiensis (B.t.) applied at the rate of 30-36 BIUs per acre or one application of Dimilin (diflubenzuron) applied at the rate of 2 ounces (formulated material) per acre. Treatment is not necessary elsewhere at BARC since no noticeable defoliation is expected.

If you have any questions or require additional information, please call me at (304) 285-1555.

Sincerely,

Rodney L Whiteman

RODNEY L. WHITEMAN
Forestry Technician
Forest Health Protection

Enclosures

cc: AO
Ralph Webb
Robert Tichenor, MDA
Sally Hughes, MDA

RLW/mae

Table 1.--Gypsy moth egg mass survey results at Beltsville Agricultural Research Center, September 7, 9 and 10, 1993.

Plot Number	Number Egg Masses/Acre
1	40
2	40
3	80
4	0
5	80
6	80
7	80
8	0
9	80
10	0
11	0
12	80
13	920
14	9880
15	6120
16	1840
17	6400
18	200
19	80
20	0
21	2240
22	0
23	0
24	40
25	320
26	120
27	40
28	40
29	0
30	0
31	0
32	0
33	0

Range = 0-9880 EM/Acre
Average = 873 EM/Acre

Figure 1. -- Gypsy moth egg mass survey plot locations at Beltsville Agriculture Research Center, September 7,9 & 10, 1993.

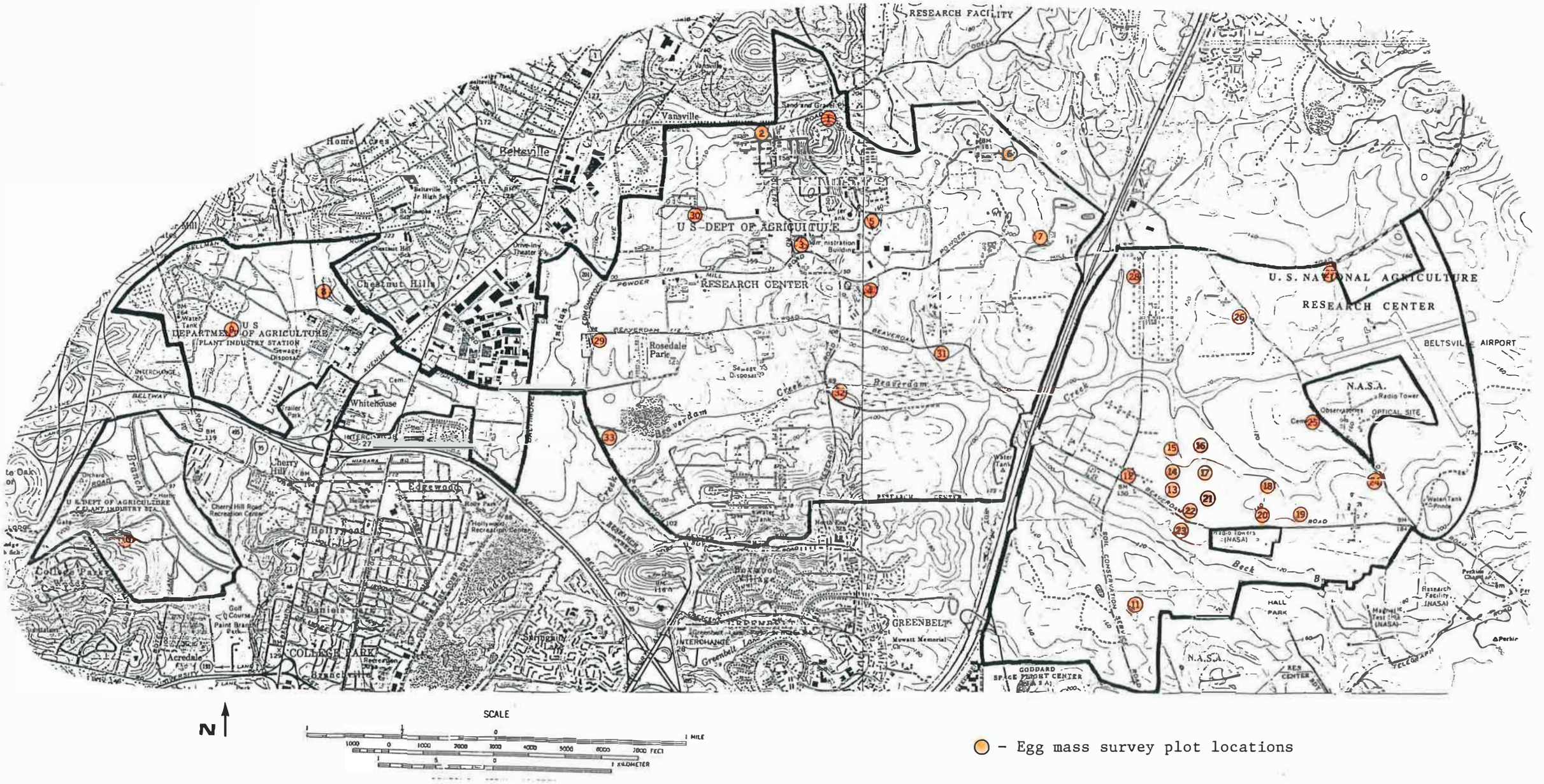
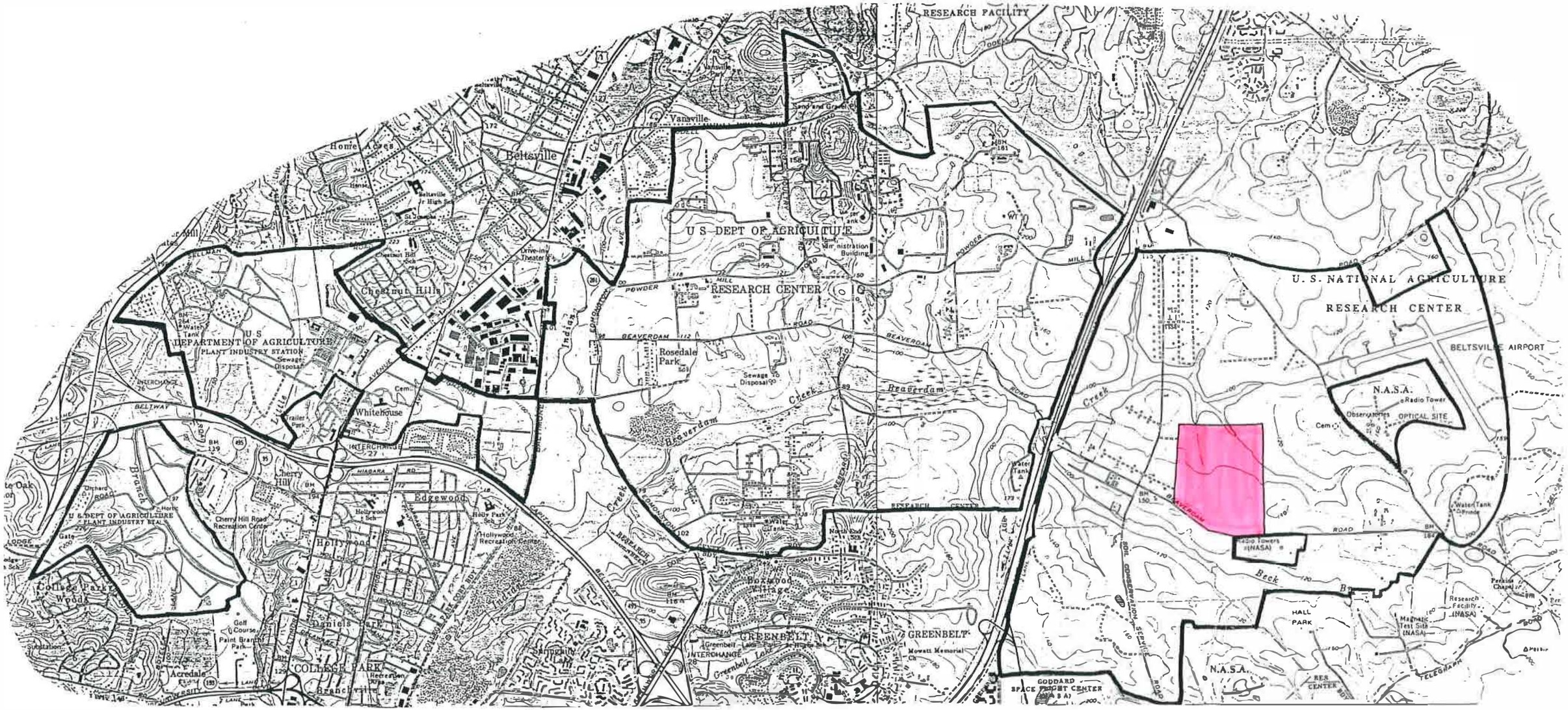


Figure 2 - Recommended gypsy moth treatment area in 1994 at Beltsville Agricultural Research Center.



- Recommended treatment area in 1994